

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being submitted *via* the USPTO EFS Filing System; **Mail Stop Amendment**; Commissioner for Patents; P.O. Box 1450; Alexandria, VA 22313-1450.

Date: July 21, 2010/Robin Wardzala/
Robin Wardzala**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of:

Applicant(s): Frederick M. Discenzo, *et al.*

Serial No: 10/674,966

Filing Date: September 30, 2003

Examiner: Carlos R. Ortiz Rodriguez

Art Unit: 2123

Conf. No: 4946

Title: SYSTEM AND METHOD FOR DYNAMIC, MULTI-OBJECTIVE OPTIMIZATION
OF MACHINE SELECTION, INTEGRATION AND UTILIZATION

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

REPLY TO NOTICE TO FILE CORRECTED APPLICATION PAPERS DATED JULY 12, 2010

Dear Sir:

This is in response to the Notice to File Corrected Application Papers dated July 12, 2010. This reply provides the information missing from page 22 of the specification, the left margin of which was inadvertently cut off rendering the beginning of each line invisible.

AMENDMENTS TO THE SPECIFICATION

Please replace the text of page 22 of the specification with the following replacement text. This replacement text adds no new matter to the specification, but rather reinstates text that was inadvertently deleted from the beginning of each line of page 22 due to a copying error.

Alternatively, adjacent intelligent components or collaborating agents may report another agent or component is ineffective in performing its function or perhaps is no longer able to function or no longer reachable on the network.

Other schemes for encoding machinery diagnostic and prognostic health information may be employed such as encoding this information in the message header, or in the text of the message. Encryption schemes that hide the encoded health information may be employed. This can provide for lower message overhead and increase security and message reliability. Alternatively, the characteristics of the message such as message length, time of transmission, frequency of message transmission, or scope of destination may convey device health and / or prognostic information.

Instead of or in addition to providing state / event change information about itself or the cluster it belongs to, related information regarding future states or events may be provided. This information provided may include an array with each element comprised of three or more values. The values for each entry may be the future state or event, the probability or likelihood of the event occurring and the expected time or condition in the future that this event may occur with the specified certainty.

It is to be appreciated that although the subject specification primarily described the invention within the context of prognosis, the invention is intended to encompass diagnostics as part of or in addition to performing prognostics.

Various artificial intelligence schemes/techniques/systems (*e.g.*, expert systems, neural networks, implicitly trained classifiers, explicitly trained classifiers, belief networks, Bayesian networks, naïve Bayesian networks, HMMs, fuzzy logic, data fusion engines, support vector machines, ...) can be employed in connection with making inferences regarding future states in accordance with the subject invention. As such an AI component in accordance with the subject invention can facilitate taking a probability-based or statistics-based approach to performing

utility-based prognoses in accordance with the subject invention. It is to be appreciated that the other embodiments of the invention can perform automated action based on predicted state *via* simple rules-based techniques (*e.g.*, look-up table), for example, to mitigate processing overhead. Moreover, a combination thereof can be employed as part of an optimization scheme.

CONCLUSION

In the event any fees are due in connection with this document, the Commissioner is authorized to charge those fees to Deposit Account No. 50-1063 [ALBRP246USC].

Should the Examiner believe a telephone interview would be helpful to expedite correction of this issue, the Examiner is invited to contact applicants' undersigned representative at the telephone number below.

Respectfully submitted,

TUROC & WATSON, LLP

/Brian Steed/

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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,966	09/30/2003	Frederick M. Disenzo	01AB175C/ALBRP246USC	4946

7590 07/12/2010
Susan M. Donahue
Rockwell Automation, 704-P, IP Department
1201 South 2nd Street
Milwaukee, WI 53204

EXAMINER

ORTIZ RODRIGUEZ, CARLOS R

ART UNIT	PAPER NUMBER
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2123

MAIL DATE	DELIVERY MODE
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07/12/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
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Application No. : 10674966
Applicant : Discenzo
Filing Date : 09/30/2003
Date Mailed : 07/12/2010

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given 1 month(s) from the mail date of this Notice within which to respond.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED. **This period for reply is NOT extendable under 37 CFR 1.136(a).**

See attachment(s).

*A copy of this notice MUST be returned with the reply. Please address response to
"Mail Stop Issue Fee, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450".*

/Anthony McPhail/
Publishing Division
Office of Data Management
(571) 272-4200

IDENTIFICATION OF APPLICATION DEFICIENCIES

- ☐ Applicant must provide legible text for the following item(s).
- ☐ Specification filed , page(s) .
 - ☐ Claims filed , claim(s) .
 - ☐ Oath/declaration filed .
 - ☐ Other: .
- ☒ Applicant must provide missing information on the following page(s) of the specification by amending the specification to add the missing text. No new matter may be added.
Page 22; the left margin is cut off and missing the beginning of each line.
- ☐ Applicant must provide an Abstract of the Disclosure.
- ☐ Applicant has submitted a DECLARATION (37 CFR 1.63) FOR A UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) (e.g., form PTO/SB/01A). The Application Data Sheet, however, is not present with the filed application. Applicant must submit an Application Data Sheet or file a new oath or declaration (e.g., PTO/SB/01) executed by the inventors and containing the information required in 37 CFR 1.63.
- ☐ Applicant must provide an executed declaration.
- ☐ Applicant must provide a declaration signed by inventor(s) .
- ☐ The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date may be required. See MPEP §§ 602.01 and 602.02. The oath or declaration is defective because:
- ☐ It does not identify the city and either state or foreign country of residence of each inventor. The residence information may be provided on either an application data sheet or a supplemental oath or declaration.
 - ☐ The oath or declaration for the patent application was filed prior to December 1, 1997, and applicant has not given a post office address anywhere in the application papers as required by 37 CFR 1.33(a), which was in effect at the time of filing of the oath or declaration. A statement over applicant's signature providing a complete post office address is required.
 - ☐ It does not identify the mailing address of each inventor. A mailing address is an address at which an inventor customarily receives his or her mail and may be either a home or business address. The mailing address should include the ZIP Code designation. The mailing address may be provided in an application data sheet or a supplemental oath or declaration. See 37 CFR 1.63(c) and 37 CFR 1.76.
- ☐ Per 37 CFR § 1.63(a)(2), applicant must provide at least one given name without abbreviation for inventor(s) .